bs-0737R **[Primary Antibody]**

HIF-1 Alpha Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3091 **SWISS:** Q16665

Target: HIF-1 Alpha

Immunogen: KLH conjugated synthetic peptide derived from middle of human HIF-1 Alpha: 661-760/826.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background:

缺氧诱导因子1Alpha不仅对于机体在缺氧条件下维持正常的生理功能具有特别重要的意义, 并在肿瘤的生长以及神经细胞凋亡等病理过程中起重要作用. HIF1 alpha能调节许多下游基因的表达水平.

哺乳动物细胞在低氧压力条件下出现HIF。HIF是一种转录因子，对细胞的缺氧起稳定作用。

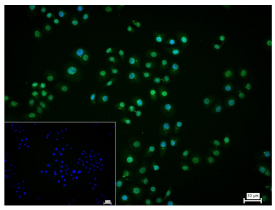
Applications: **Flow-Cyt** (1μg/Test)
ICC/IF (1:50-200)

Reactivity: Human (predicted: Mouse, Rat, Pig, Chicken)

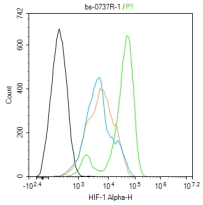
Predicted MW.: 92 kDa

Subcellular Location: Cytoplasm ,Nucleus

VALIDATION IMAGES



4% Paraformaldehyde-fixed HepG2 (treated with 500uM CoCl2 for 6 hours）(H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (HIF-1 Alpha) polyclonal Antibody, unconjugated (bs-0737R) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-60295G-BF488) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.



The HepG2 (H) （treated with 500uM CoCl2 for 6 hours）cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C,the cells then were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.).Primary Antibody (green):Rabbit Anti-HIF-1 Alpha antibody (bs-0737R): 1 μg/10^6 cells; Secondary Antibody (white blue): Goat anti-Rabbit IgG-FITC (bs-40295G-FITC): 1 μg/test. Isotype Control (orange): Rabbit IgG (bs-0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=19]** Wenting Xu. et al. Dual-Release Free Iron and Breakdown of Ferroptosis Defenses to Achieve Ferroptosis Cascade Storms for Potent Antitumor Therapy. ADV FUNCT MATER. 2025 Jan;:2420540 IF ;Mouse. 10.1002/adfm.202420540
- **[IF=18.027]** Shikai Liu. et al. On-Demand Generation of Peroxynitrite from an Integrated Two-Dimensional System for Enhanced Tumor Therapy. ACS NANO. 2022;XXXX(XXX):XXX-XXX IHC,WB ;Mouse,Human. 35666853
- **[IF=18.2]** Tingkui Zhao. et al. A Triple-Targeted Rutin-Based Self-Assembled Delivery Vector for Treating Ischemic Stroke by Vascular Normalization and Anti-Inflammation via ACE2/Ang1-7 Signaling. ACS CENTRAL SCI. 2023;XXXX(XXX):XXX-XXX WB,IHC ;Rat. 37396868

- **[IF=17.1]** Yu Zhang. et al. A Vanadium-Based Nanoplatform Synergizing Ferroptotic-like Therapy with Glucose Metabolism Intervention for Enhanced Cancer Cell Death and Antitumor Immunity. ACS NANO. 2023;XXXX(XXX):XXX-XXX IF,ICC,WB ;Mouse. 37272777
- **[IF=16.806]** Jianting Yao. et al. Low-Intensity Focused Ultrasound-Responsive Ferrite-Encapsulated Nanoparticles for Atherosclerotic Plaque Neovascularization Theranostics. 2021 Aug 11 IF ;Rabbit. 34382370